

Marco Balsi

List of Publications by Year in descending order

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69
papers

1,145
citations

686830

13
h-index

414034

32
g-index

69
all docs

69
docs citations

69
times ranked

1369
citing authors

#	ARTICLE	IF	CITATIONS
1	Stability and dynamics of delay-type general and cellular neural networks. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 1992, 39, 487-490.	0.1	253
2	Classification of fMRI independent components using IC-fingerprints and support vector machine classifiers. NeuroImage, 2007, 34, 177-194.	2.1	245
3	Enhanced synchronized switch harvesting: a new energy harvesting scheme for efficient energy extraction. Smart Materials and Structures, 2010, 19, 115017.	1.8	84
4	A low-power circuit for piezoelectric vibration control by synchronized switching on voltage sources. Sensors and Actuators A: Physical, 2010, 161, 245-255.	2.0	60
5	Single-tree detection in high-density LiDAR data from UAV-based survey. European Journal of Remote Sensing, 2018, 51, 679-692.	1.7	51
6	Functional source separation from magnetoencephalographic signals. Human Brain Mapping, 2006, 27, 925-934.	1.9	49
7	Vibration damping as a result of piezoelectric energy harvesting. Sensors and Actuators A: Physical, 2011, 169, 178-186.	2.0	48
8	High-Resolution Aerial Detection of Marine Plastic Litter by Hyperspectral Sensing. Remote Sensing, 2021, 13, 1557.	1.8	32
9	Somatosensory dynamic gamma-band synchrony: A neural code of sensorimotor dexterity. NeuroImage, 2007, 35, 185-193.	2.1	27
10	Robot vision with cellular neural networks: a practical implementation of new algorithms. International Journal of Circuit Theory and Applications, 2007, 35, 449-462.	1.3	19
11	Preliminary Archeological Site Survey by UAV-Borne Lidar: A Case Study. Remote Sensing, 2021, 13, 332.	1.8	19
12	Fully Automatic Point Cloud Analysis for Powerline Corridor Mapping. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 8637-8648.	2.7	17
13	Optimizing ICA in fMRI using information on spatial regularities of the sources. Magnetic Resonance Imaging, 2009, 27, 1110-1119.	1.0	14
14	Low-power global navigation satellite system-enabled wireless sensor network for acoustic emission localisation in aerospace components. Structural Control and Health Monitoring, 2020, 27, e2525.	1.9	14
15	Image segmentation based on active contours using discrete time cellular neural networks. , 0, , .		13
16	Guiding a mobile robot with cellular neural networks. International Journal of Circuit Theory and Applications, 2002, 30, 611-624.	1.3	13
17	Hyperspectral characterization of marine plastic litters. , 2018, , .		13
18	Machine Learning Algorithms to Predict Tree-Related Microhabitats using Airborne Laser Scanning. Remote Sensing, 2020, 12, 2142.	1.8	12

#	ARTICLE	IF	CITATIONS
19	A UAV-Based Thermal-Imaging Approach for the Monitoring of Urban Landfills. <i>Inventions</i> , 2020, 5, 55.	1.3	11
20	Generalized CNN: Potentials of a CNN with non-uniform weights. , 0, , .		9
21	Stability of cellular neural networks with one-dimensional templates. <i>International Journal of Circuit Theory and Applications</i> , 1993, 21, 293-297.	1.3	9
22	CNN-based 3D thermal modeling of the soil for antipersonnel mine detection. , 0, , .		8
23	GPR measurements and FDTD simulations for landmine detection. , 2010, , .		8
24	MODA: moving object detecting architecture. <i>IEEE Transactions on Circuits and Systems Part 2: Express Briefs</i> , 1993, 40, 174-183.	2.3	7
25	Design and training of multilayer discrete time cellular neural networks for antipersonnel mine detection using genetic algorithms. , 0, , .		7
26	Discussion and new proofs of the conditional stability criteria for multidevice microwave amplifiers. <i>IET Microwaves Antennas and Propagation</i> , 2006, 153, 177.	1.2	7
27	Performance evaluation of lightweight LiDAR for UAV applications. , 2014, , .		7
28	OBSTACLE DETECTION SYSTEM INVOLVING FUSION OF MULTIPLE SENSOR TECHNOLOGIES. <i>International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives</i> , 0, XLII-2/W6, 127-134.	0.2	7
29	Time-constant extracting filters for fast gas identification in electronic noses. <i>Electronics Letters</i> , 2002, 38, 510.	0.5	6
30	Current-mode programmable piecewise-linear neural synapses. <i>International Journal of Circuit Theory and Applications</i> , 2003, 31, 265-275.	1.3	6
31	Neuronal Electrical Ongoing Activity as Cortical Areas Signature: An Insight from MNI Intracerebral Recording Atlas. <i>Cerebral Cortex</i> , 2022, 32, 2895-2906.	1.6	6
32	Focal-plane optical flow computation by foveated CNNs. , 0, , .		4
33	Fuzzy reasoning for the design of CNN-based image processing systems. , 0, , .		4
34	Efficient software-hardware 3D heat equation solver with applications on the non-destructive evaluation of minefields. <i>Computers and Geosciences</i> , 2009, 35, 2239-2249.	2.0	4
35	Morphological Analysis of ECG Holter Recordings by Support Vector Machines. <i>Lecture Notes in Computer Science</i> , 2002, , 134-143.	1.0	4
36	Constrained ICA for functional magnetic resonance imaging. , 0, , .		3

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37	Real time vision by FPGA implemented CNNs. , 0, , .		3
38	Preliminary experimental validation of a landmine detection system based on localized heating and sensing. Proceedings of SPIE, 2008, , .	0.8	3
39	FPGA computation of the 3D heat equation. Computational Geosciences, 2010, 14, 649-664.	1.2	3
40	ESTABLISHING NEW FOUNDATIONS FOR THE USE OF REMOTELY-PILOTED AIRCRAFT SYSTEMS FOR CIVILIAN APPLICATIONS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-2/W13, 197-201.	0.2	3
41	Robot Vision Using Cellular Neural Networks. Studies in Fuzziness and Soft Computing, 2003, , 431-450.	0.6	3
42	Antipersonnel mine detection on infrared images. , 0, , .		2
43	University, technology, and society [Guest Editors' Introduction]. IEEE Technology and Society Magazine, 2001, 20, 3-5.	0.6	2
44	10-th Order Programmable Low-pass CMOS Integrated Pulse-shaping Filter. , 0, , .		2
45	Tracking for a CNN guided robot. , 0, , .		2
46	FPGA Implementation of 3-D Thermal Model Simulator. , 2006, , .		2
47	Input-Matching and Offset-Cancelling Networks for Limiting Amplifiers in Optical Communication Systems. Analog Integrated Circuits and Signal Processing, 2006, 47, 23-32.	0.9	2
48	Optimized cellular neural network universal machine emulation on FPGA. , 2007, , .		2
49	Thermal systems for landmine detection. Proceedings of SPIE, 2009, , .	0.8	2
50	UAS imaging for archaeological survey and documentation. , 2013, , .		2
51	Experimental Validation of an Active Thermal Landmine Detection Technique. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 2040-2047.	2.7	2
52	A PROPOSAL TO IMPLEMENT OPTOELECTRONIC CNN SYSTEMS BY AMORPHOUS SILICON THIN FILM TECHNOLOGY. International Journal of Circuit Theory and Applications, 1996, 24, 121-125.	1.3	1
53	An accurate behavioral model of phase detectors for clock recovery circuits. , 0, , .		1
54	Optimizing ICA using generic knowledge of the sources. , 0, , .		1

#	ARTICLE	IF	CITATIONS
55	FPGA finite difference time domain solver for thermal simulation. , 0, , .		1
56	Thermal detection of buried landmines by local heating. International Journal of Systems Science, 2005, 36, 589-604.	3.7	1
57	Optimal forward regression for landmine detection by thermal sensing. , 2010, , .		1
58	A new bio-inspired decision chain for UAV sense-and-avoid applications. Proceedings of SPIE, 2012, , .	0.8	1
59	Short Term Evaluation of Brain Activities in fMRI Data by Spatiotemporal Independent Component Analysis. Lecture Notes in Computer Science, 2002, , 167-176.	1.0	1
60	Post fire natural regeneration monitoring with the integrated use of high resolution remotely sensed images: the case study of the Pineta di Castel Fusano. European Journal of Remote Sensing, 2008, , 107-122.	0.2	1
61	Cellular Neural Networks for Mobile Robot Vision. Lecture Notes in Computer Science, 2001, , 484-491.	1.0	1
62	Cellular networks of oscillators. , 0, , .		0
63	Passive IR polarimetric remote sensing of antipersonnel mines using cellular neural networks. , 0, , .		0
64	Regularization-based continuous-time motion detection by single-layer cellular neural networks. , 0, , .		0
65	A tree-like amplifier architecture for large gain-bandwidth product. , 0, , .		0
66	Bipolar differential cell with improved bandwidth performance. , 0, , .		0
67	<title>Evolutionary selection of neural networks satisfying leave-one-out criteria</title>. , 2006, , .		0
68	Validation of a Statistical Non-Linear Model of GaAs HEMT MMIC's by Hypothesis Testing and Principal Components Analysis. , 0, , .		0
69	Decision Trees and CBR for the Navigation System of a CNN-based Autonomous Robot. , 2007, , 181-201.		0